

Keywords: XML, application framework, electronic negotiation, ontology

25				
25	Making object-oriented schemas more expressive Diego Calvanese, Maurizio Lenzerini May 1994 Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems Publisher: ACM Press			
>				
	Full text available: pdf(1,30 MB) Additional Information: full citation, abstract, references, citings, index terms			
	Current object-oriented data models lack several important features that would allow one to express relevant knowledge about the classes of schema. In particular, there is no data model supporting simultaneously the inverse of the functions represented by attributes, the union, the intersection and the complement of classes, the possibility of using nonbinary relations, and the possibility of expressing cardinality constraints on attributes and relations. In this paper we define a new data			
26 3	Maximizing reusability: seeking appropriate positions for derived classes within the class hierarchy Reda Alhajj, Faruk Polat March 2000 Proceedings of the 2000 ACM symposium on Applied computing - Volume 1			
•	March 2000 Proceedings of the 2000 ACM symposium on Applied computing - Volume 1 Publisher: ACM Press			
	Full text available: pdf(478.27 KB) Additional Information: full citation, references, index terms			
	Keywords : algorithms, class hierarchy, maximizing reusability, object-oriented databases, schema evolution			
27	A survey of approaches to automatic schema matching			
	Erhard Rahm, Philip A. Bernstein December 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 4			
	Publisher: Springer-Verlag New York, Inc. Full text available: pdf(196.22 KB) Additional Information: full citation, abstract, citings, index terms			
	Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach			
	Keywords : Graph matching, Machine learning, Model management, Schema integration, Schema matching			
8	A common schema for dynamic programming and branch and bound algorithms Paul Helman			
	January 1989 Journal of the ACM (JACM), Volume 36 Issue 1 Publisher: ACM Press			
	Full text available: pdf(2.72 MB) Additional Information: full citation, abstract, references, index terms			
	A new model for dynamic programming and branch and bound algorithms is presented. The model views these algorithms as utilizing computationally feasible dominance relations to infer the orderings of application objects, thereby implicitly enumerating a finite solution space. The formalism is broad enough to apply the computational strategies of dynamic programming and branch and bound to problems with nonassociative objects, and can model both oblivious and nonoblivious algorithms, as well			
29	Document structure and content analysis 2: Schema matching for transforming structured			
•	documents Aida Boukottaya, Christine Vanoirbeek November 2005 Proceedings of the 2005 ACM symposium on Document engineering DocEng '05			
	Publisher: ACM Press Full text available: pdf(441.70 KB) Additional Information: full citation, abstract, references, index terms			
	Structured document content reuse is the problem of restructuring and translating data structured under a source schema into an instance of a target schema. A notion closely tied with structured document reuse is that of structure transformations. Schema matching is a critical strep in structured document transformations. Manual matching is expensive and error-prone. It is therefore important to develop techniques to automate the matching process and thus the transformation process. In this pape			

Keywords: document structure transformations, schema matching

(page	2): (schema inheritace derived)		F
30	Resolving semantic heterogeneity in schema integration Farshad Hakimpour, Andreas Geppert October 2001 Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001		
	Publisher: ACM Press Full text available: pdf(1.24 MB)	Additional Information: full citation, abstract, references, citings, index terms	
	amount of data and the number o the differences in data structures, meaning of data in contrast to syr	f data sources are becoming ever more important issues as both, the of data producers are growing. Interoperability not only has to resolve it also has to deal with semantic heterogeneity. <i>Semantics</i> refer to the ntax, which only defines the structure of the schema items (e.g., classes part of semantics related to the	
	Keywords: database integration,	formal ontologies, semantic heterogeneity	
31	Decidable Properties of Monadic F Edward Ashcroft, Zohar Manna, Amir		
	July 1973 Journal of the ACM (JA Publisher: ACM Press		
	Full text available: pdf(711.41 KB)	Additional Information: full citation, abstract, references, citings, index terms	
	is shown that the termination, div Although it is possible to translate functional schemas, it is shown th	hemas which properly includes "Ianov" flowchart schemas is defined. It rergence, and freedom problems for functional schemas are decidable. It is a large class of non-free functional schemas into equivalent free that in general this cannot be done. It is also shown that the equivalence is is decidable. Most of the resu	,
32	A. Formica, H. D. Groger, M. Missikoff	bject-oriented database schema correctness f Database Systems (TODS), Volume 23 Issue 3	
. V .	Publisher: ACM Press Full text available: pdf(261.72 KB)	Additional Information: full citation, abstract, references, citings, index terms, review	
	Inheritance is introducted in object and readable software. Powerful of definition to inherit from more that mechanism, inheritance conflicts in the conflicts of the conflict of the conflic	ct-oriented systems to enhance code reuse and create more compact object models adopt multiple inheritance, allowing a type (or class) an one supertype. Unfortunately, in applying this powerful modeling may be generated, which arise when the same property or operation is pe. Inheritance conflicts identification and resolution is	
	Keywords : databases, graph the schemas, recursive types	eory, inheritance conflicts, inheritance process, object-oriented database	
33	Schema transformation without da	atabase reorganization	
٩	Markus Tresch, Marc H. Scholl March 1993 ACM SIGMOD Record,	Volume 22 Issue 1	
	Publisher: ACM Press -Full text available: pdf(542.87 KB)	Additional Information: full citation, abstract, citings, index terms	
	since these are expensive operation show that data independence, who reorganizations in case of capacity	eorganizations due to schema modification in object-oriented systems, ons and they conflict with reusing existing software components. We ich is a neglected concept in object databases, helps to avoid y preserving and reducing schema transformations. We informally llustrate the idea of a schema transformation methodology that avoi	•
34	Database design: Entity-relationsh	oin approach to the concentual schema design	

Hirotaka Sakai

May 1980 Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80

Publisher: ACM Press

Full text available: pdf(725.79 KB)

Additional Information: full citation, abstract, references, citings

The purpose of this paper is to present a systematic approach to the conceptual schema design. The entity-relationship model is used as the conceptual schema model. The entity-relationship schema, a formal description of the model, is defined to explicitly state the dependency structures such as the functional dependencies, the transitive dependencies, and the hierarchical decompositions. Based upon the analysis of these structural properties, the schema is iteratively transformed into the refin ...

DB-1 (databases): data integration: Organizing structured web sources by query schemas: a



clustering approach

Bin He, Tao Tao, Kevin Chen-Chuan Chang

November 2004 Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04

Publisher: ACM Press

Full text available: pdf(323,72 KB)

Additional Information: full citation, abstract, references, index terms, review

In the recent years, the Web has been rapidly "deepened" with the prevalence of databases online. On this deep Web, many sources are <i>structured</i> by providing structured query interfaces and results. Organizing such structured sources into a domain hierarchy is one of the critical steps toward the integration of heterogeneous Web sources. We observe that, for structured Web sources, query schemas <i>i>ie</i>, attributes in query interfaces) are discriminative representative ...

Keywords: data integration, deep Web, hierarchical agglomerative clustering

Research session: integration and mapping #1: Information preserving XML schema embedding Philip Bohannon, Wenfei Fan, Michael Flaster, P. P. S. Narayan

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(241,56 KB)

Additional Information: full citation, abstract, references, index terms

A fundamental concern of information integration in an XML context is the ability to embed one or more source documents in a target document so that (a) the target document conforms to a target schema and (b) the information in the source document(s) is preserved. In this paper, information preservation for XML is formally studied, and the results of this study guide the definition of a novel notion of schema embedding between two XML DTD schemas represented as graphs. Schem ...

XML: Schemapath, a minimal extension to xml schema for conditional constraints

Claudio Sacerdoti Coen, Paolo Marinelli, Fabio Vitali

Proceedings of the 13th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(198.40 KB)

Additional Information: full citation, abstract, references, index terms

In the past few years, a number of constraint languages for XML documents has been proposed. They are cumulatively called schema languages or validation languages and they comprise, among others, DTD, XML Schema, RELAX NG, Schematron, DSD, xlinkit. One major point of discrimination among schema languages is the support of co-constraints, or co-occurrence constraints, e.g., requiring that attribute A is present if and only if attribute B is (or is not) present in the same element. Although ...

Keywords: co-constraints, schema languages, schemapath, xml

Model independent assertions for integration of heterogeneous schemas

Stefano Spaccapietra, Christine Parent, Yann Dupont

July 1992 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 1 Issue

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.15 MB)

Additional Information: full citation, abstract, references, citings

Due to the proliferation of database applications, the integration of existing databases into a distributed or federated system is one of the major challenges in responding to enterprises' information requirements. Some proposed integration techniques aim at providing database administrators (DBAs) with a view definition language they can use to build the desired integrated schema. These techniques leave to the DBA the responsibility of appropriately restructuring schema elements from existing I ...

Keywords: conceptual modeling, database design and integration, distributed databases, federated databases, heterogeneous databases, schema integration

A schema for interprocedural modification side-effect analysis with pointer aliasing

Barbara G. Ryder, William A. Landi, Philip A. Stocks, Sean Zhang, Rita Altucher

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.72 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The first interprocedural modification side-effects analysis for C (MODC) that obtains better than worstcase precision on programs with general-purpose pointer usage is presented with empirical results. The analysis consists of an algorithm schema corresponding to a family of MODC algorithms with two independent phases: one for determining pointer-induced aliases and a subsequent one for propagating interprocedural ...

Comparative analysis of six XML schema languages



Dongwon Lee, Wesley W. Chu

September 2000 ACM SIGMOD Record, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(305.98 KB)

Additional Information: full citation, abstract, citings, index terms

As XML [5] is emerging as the data format of the internet era, there is an substantial increase of the amount of data in XML format. To better describe such XML data structures and constraints, several XML schema languages have been proposed. In this paper, we present a comparative analysis of six noteworthy XML schema languages.

Results 21 - 40 of 200

Result page: <u>previous</u> <u>1</u> **2** <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u>

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